

Geothermal Energy Project Brief

California Energy Commission

June 2002

Indian Valley Hospital Geothermal Heating System

PURPOSE

To provide geothermal space heating to the Indian Valley Hospital and Clinic in Greenville, Plumas County, California.

FUNDING AND OWNERSHIP

The system installed in the early and mid-1980's in the hospital and clinic is owned and operated by the Indian Valley Hospital District.

The California Energy Commission provided grant co-funding for drilling the geothermal production well and construction of the heating system.

Awards to the Indian Valley Hospital District	\$517,400
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Match funds, Indian Valley Hospital District	<u>33,075</u>
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Total	\$550,475
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GEOTHERMAL RESOURCE AND SYSTEM DESIGN

The geothermal system heats the 38,000 square foot, single-story hospital and a separate clinic building.

A single well, 200 feet deep, provides fluids at 118 degrees F. A 75-foot pipeline brings the water to the hospital, where there is a single heat exchanger and 200 feet of pipe in the

hospital attic. The cooled and very clean geothermal fluids are discharged into a nearby creek via a 450-foot drainage system.

In the winter, the flow rate is a maximum of 80 GPM. The system is generally shut down by the end of May and started up in October.

SAVINGS AND PAYBACK PERIOD

It is estimated that the geothermal system results in a 50% saving on the hospital and clinic's electricity costs, which were reduced from approximately \$7000 to \$3500/month.

For more information on this project, contact:

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